

**USDA Service Center Initiative
Geospatial Data Acquisition, Integration and Delivery
Business Re-engineering Project**

Data Themes - Outline - Demographics

I. Acquisition

A. Data Source

1. Producer Information

a. Name

U.S. Department of Commerce
Bureau of the Census
Geography Division

b. Location of Headquarters

Washington, DC

c. Internet Address

<http://www.census.gov/geo/www/tiger/index.html>

2. Publisher Information

a. Name

Environmental Systems Research Institute

b. Location of Headquarters

ESRI
380 New York Street
Redlands, CA 92373-8100
USA

c. Internet Address

<http://www.esri.com/>

3. Acquisition Information

a. Delivery Media

Ftp download ArcData Online

b. Download URL

<http://www.esri.com/data/online/index.html>

c. Projected Data Availability Schedule

Now

B. Standards Information

1. Geospatial Data Standard

- a. Standard Name and Steward Information

Tiger/Line Census Files

- b. Standard Version

Version (0024)

- c. Standard URL

<http://www.census.com/geo/www/tiger/index.html>

2. Metadata Standard

- a. Standard Name and Steward Information

FGDC Content standards for Digital Geospatial Metadata

- b. Description of Metadata Captured

Metadata Sections include:

Identification Information
Data Quality Information
Spatial Data Organization Information
Spatial Reference Information
Entity and Attribute Information
Distribution Information
Metadata Reference Information

- c. Metadata Accuracy and Completeness Assessment

Complete

C. Acquired Data Structure

1. Geospatial Data Format

- a. Format (raster, vector, etc.)

Vector

- b. Format Name

ESRI Shape files

- c. Data Extent

US

- d. Horizontal and Vertical Resolution

- e. Absolute Horizontal and Vertical Accuracy

The information present in these files is provided for the purposes of statistical analysis and census operations only. Coordinates in the TIGER/Line files have six implied decimal places, but the positional accuracy of these coordinates is not as great as the six decimal places suggest. The positional accuracy varies with the source materials used, but generally the information is no better than the established National Map Accuracy standards for 1:100,000-scale maps from the U.S. Geological Survey (USGS); thus it is NOT suitable for high-precision measurement applications such as engineering problems, property transfers, or other uses that might require highly accurate measurements of the earth's surface. The USGS 1:100,000-scale maps meet national map accuracy standards and use coordinates defined by the North American Datum, 1983.

f. Nominal Scale

1:100,000

g. Horizontal and Vertical Datum

North American Datum 83 (NAD83)

h. Projection

Geographic

i. Coordinate Units

Decimal Degrees

j. Average Data Set Size

500K

k. Symbology

None

2. Attribute Data Format.

a. Format Name

Fixed Format ASCII

b. Database Size

Varies

3. Data Model

a. Geospatial Data Structure

ESRI Shape File

b. Attribute Data Structure

Dbase 5

c. Database Table Definition

None

d. Data Relationship Definition

The Shape files contain listings of fips, and mcd.

e. Data Dictionary

Census Demographics Data Dictionary

This data table is an extract from the complete Summary Tape Files 1A and 3A, reflecting the most commonly used demographic characteristics. It is theoretically available for all summary levels except Census Blocks. Except where otherwise noted, all fields represent absolute counts of persons or housing units as they fall within particular categories. For example, persons can be counted according to ethnicity, and housing units can be grouped according to the number of rooms in the unit. To determine the percent of persons or housing units that fall within a category relative to a larger group, simply divide by the appropriate universe field. (i.e., Percent Hispanic = Hispanics / Total Population). We have pre-calculated percentages for many of the fields in the database for quick display purposes. These new fields have a prefix of "P_" (i.e. Percent Hispanic would be named "P_Hispanic" in the database.

Population Characteristics

Total Population

Persons	Total Population
Families	Total Families
Houshold	Total Households
Samp_pop	Sample Population
Per_samp	Percent of Persons in Sample

Sex

Male	Male
Female	Females

Ethnicity

White	Whites
Black	Blacks
Amind	American Indians
Asian	Asian and Pacific
O_ethnic	Other Ethnicity
Hispanic	Hispanics of All Races

Age

Agelt_05	Age Less Than 5
Age05_09	Age 5 to 9
Age10_14	Age 10 to 14
Age15_17	Age 15 to 17
Age18_19	Age 18 to 19
Age15_19	Age 15 to 19
Ageis_20	Age 20 Years
Age21_24	Age 21 to 24
Age20_24	Age 20 to 24
Age25_34	Age 25 to 34
Age35_44	Age 35 to 44
Age45_54	Age 45 to 54

Age55_64	Age 55 to 64
Age65_74	Age 65 to 74
Age75_84	Age 75 to 84
Agegt_84	Age Over 84
Agege_03	Age 3 or Older
Agege_05	Age 5 or Older
Agege_16	Age 16 or Older
Agege_25	Age 25 or Older

Marital Status

Single	Never Married
Married	Married
Separate	Married and Separated
Widowed	Widowed
Divorced	Divorced

Family Type

Oneperhh	One Person Households
Marrwich	Married with Child Families
Marrnoch	Married no Child Families
Singwich	Single with Child Families
Singnoch	Single no Child Families

Persons in Families

Perinfam	In Families
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Persons in Institutions

Corrinstit	In Correctional Facilities
Nurshome	In Nursing Homes
Mental	In Mental Institutions
Juvenile	In Juvenile Detention
O_instit	In Other Institutions
O_noinstit	In Other Non-Institutional Group Quarters
Dormitor	In Dormitories
Miliquar	In Military Quarters
Shelters	In Homeless Shelters
Instreet	On the Street

Ability to Speak English

Onlyengl	Speak English Only
Ableengl	Able to Speak English
Cantengl	Cannot Speak English

Citizenship

Native	Native Citizens
Natural	Naturalized Citizens
Noncitiz	Non Citizens

Region of Birth

Born_ins	Born in Same State
Bornnort	Born in Northeast USA
Bornmidw	Born in Midwest USA
Bornsout	Born in South USA
Bornwest	Born in West USA
Born_for	Born Outside USA

Migratory Status

Samehous	At Same House 1985
Samecnty	In Same County 1985
Samestat	In Same State 1985
Oth_stat	In Other State 1985
Frm_abrd	In Other Country 1985

Workers

Workers	Total Workers Over 16
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Place of Work

Wrkincty	Worked in County of Residence
Wrkexcty	Worked outside County of Residence

Type of Commute

Drvalone	Drove Alone to Work
Carpool	Carpooled to Work
Pubtrans	Public Transit to Work
Wrk_home	Worked at Home

Duration of Commute

Com_lt15	Commute Under 15 Min
Com_1529	Commute 15 to 29 Min
Com_3044	Commute 30 to 44 Min
Com_gt44	Commute Over 44 Min

Student Population

Preprima	Preprimary Students
Elmscnd	Elem and High Students
College	College Students

Educational Attainment

Nodiplom	No High School Diploma
Highschl	High School Graduates
Somecolg	Attended College
Colgrad	College Graduates
Gradschl	Attended Graduate School

Employment Status

Armdforc	In Armed Forces
Employed	Total Employed
Unemploy	Total Unemployed
Notinwrk	Total Not in Workforce

Industry of Employment

Primary	In Primary Industries
Manufact	In Manufacturing
Utility	In Transport and Utilities
Trade	In Trade
Fire	In Finance and Insurance
Services	In Commercial Services
Profserv	In Professional Services
Public	In Public Administration

Occupation

Execprof	As Managers and Professionals
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Techsale	As Technical-Sales-Clerical
Service	As Service Employee
Manual	As Operator-Assembler-Laborer

Employment Sector

Privwork	In Private Sector
Publwork	In Public Sector
Selfwork	Self Employed
Famiwork	Unpaid Family Work

Household Income

Inc_lt15	Income Under \$15,000 in Household
Inc_1525	Income \$15-25,000 in Household
Inc_2535	Income \$25-35,000 in Household
Inc_3550	Income \$35-50,000 in Household
Inc_5075	Income \$50-75,000 in Household
Inc_gt75	Income Over \$75,000 in Household
Inc_medn	Median Household Income
Inc_aggr	Aggregate Household Income

Households by Type of Income

Wage_sal	Wages or Salary in Household
Self_inc	Self Employed Income in Household
Farm_inc	Farm Income in Household
Inte_inc	Interest Income in Household
Socs_inc	Social Security in Household
Publ_inc	Public Assistance in Household
Reti_inc	Retirement Income in Household

Per Capita Income

Incprcap	Per Capita Income
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Poverty

Childpov	Children in Poverty
Inpoverty	Persons in Poverty

Housing Characteristics

Housing Units

Housing	Housing Units
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Occupancy

Occupied	Occupied Units
Vacant	Vacant Units

Tenure

Ownr_occ	Owner Occupied Units
Rent_occ	Renter Occupied Units

Occasional Units

Seasonal	Seasonal Use Units
F_migrnt	Migratory Worker Units

Rooms in Unit

Room_1_3	Units with 1 to 3 Rooms
Room_4_6	Units with 4 to 6 Rooms
Room_gt6	Units with Over 6 Rooms

Persons in Unit

Prunit12	Units with 1 to 2 Persons
Prunit34	Units with 3 to 4 Persons
Prunitg4	Units with Over 4 Persons

Housing Value

Val_lt25	Units Valued Under \$25,000
Val_2550	Units Valued \$25-50,000
Val_501c	Units Valued \$50-100,000
Val_1c2c	Units Valued \$100-200,000
val_2c3c	Units Valued \$200-300,000
Val_gt3c	Units Valued Over \$300,000
Val_medi	Median Value of Units
Agg_valu	Aggregate Value of Units

Housing Contract Rent

Rnt_lt25	Unit Rent Under \$250
Rnt_2550	Unit Rent \$250-500
Rnt_5075	Unit Rent \$500-750
Rnt_751k	Unit Rent \$750-1000
Rnt_gt1k	Unit Rent Over \$1000
Rnt_medi	Median Rent

Units in Structure

Detached	Single Detached Units
Attached	Single Attached Units
Duplex	Duplex Units
Apartment	Apartment Units

Source of Water

Pubwater	Water from Public Source
Prvwater	Water from Private Source

Type of Sewer

Pubsewer	Sewer with Public Utility
Prvsewer	Sewer by Private Means

Age of Housing Units

Bltbfr70	Built before 1970
Bl_7079	Built 1970-1979
Bl_8084	Built 1980-1984
Bltaft84	Built after 1984
Medyrbld	Median Year Built

Source of Heat

Publ_gas	Heat from Gas Utility
Botl_gas	Heat from Bottled Gas
Electric	Heat from Electricity
Fuelkero	Heat from Oil or Kerosene
Coalwood	Heat from Coal or Wood
Oth_heat	Heat from Other Source

Vehicles in Household

Novehicl	No Vehicles in Household
Vehicl_1	One Vehicle in Household

Vehicle_2	Two Vehicles in Household
Vehicleg2	Over Two Vehicles in Household
Aggvehcl	Aggregate Vehicles

D. Policies

1. Restrictions

a. Use Constraints

None. Acknowledgment of the U.S. Bureau of the Census would be appreciated for products derived from these files. TIGER, TIGER/Line, and Census TIGER are trademarks of the Bureau of the Census.

b. Access Constraints

None

c. Certification Issues

None

2. Maintenance

a. Temporal Information

TIGER/Line files are extracted from the Census TIGER data base when needed for geographic programs required to support the census and survey programs of the Census Bureau. No changes or updates will be made to the 1995 TIGER/Line files. Future releases of TIGER/Line files will reflect updates made to the Census TIGER data base and will be released under a revised version numbering system (based on the month and year the data is extracted).

b. Average Update Cycle

None

E. Acquisition Cost

1. Cooperative Agreement

a. Description of Agreement

See License Agreement at:

<http://www.esri.com/data/online/datalicense.html>

b. Status of Agreement

Current

2. Cost to Acquire Data

If acquired from the ESRI Web site as shapefiles the data is free.

II. Integration

A. *Value Added Process*

1. Benefit to the Service Center

N/A

2. Process Model

a. Flow Diagram

N/A

b. Process Description.

The data was downloaded in Zip format as a shapefile in geographic projection DD
The data was projected to UTM NAD83 using ESRI's ArcView projector extension.

3. Technical Issues

a. Tiling

County

b. Compression

None

c. Scale

1:100,000

d. Tonal Matching

None

e. Edge-matching

None

4. Quality Control

a. Procedures

None

b. Acceptance Criteria

None

5. Data Steward.

a. Name and Organization

Original Data steward will remain:

U.S. Department of Commerce
Bureau of the Census
Geography Division

USDA Service Center data is located at:
National Cartography and Geospatial Center
USDA-NRCS
Ft Worth TX

b. Responsibilities

None

B. Integrated Data Structure

1. Geospatial Data Format

a. Format (raster, vector, etc.)

Vector

b. Format Name

ESRI Shapefiles

c. Data Extent

United States

d. Horizontal and Vertical Resolution

Same as Source

e. Absolute Horizontal and Vertical Accuracy

Same as Source

f. Nominal Scale

1:100,000

g. Horizontal and Vertical Datum

Same as Source

h. Projection

UTM NAD83

i. Coordinate Units

Meters

j. Symbology

None

2. Attribute Data Format

a. Format Name

Dbase5

- b. Database Size

Variable

3. Data Model

- a. Geospatial Data Structure

Same as Source

- b. Attribute Data Structure

Same as Source

- c. Database Table Definition

Same as Source

- d. Data Relationship Definition

Same as Source

- e. Data Dictionary

Same as Source

C. Resource Requirements

1. Hardware and Software

Hardware: Desktop computer Pentium class with 32meg of Ram

Software: ESRI Software or any common GIS desktop software

2. Staffing

Unknown

D. Integration Cost

1. Hardware and Software

Hardware: Desktop computer Pentium class with 32meg of Ram

Software: ESRI Software or any common GIS desktop software

2. Staffing

Unknown

III. Delivery

A. Specifications

1. Directory Structure

- a. Folder Theme Data is Stored In

Demographics

2. File Naming Convention

a. List of Theme Files and The File Naming Convention

Each data file name includes a 3-letter prefix (e.g. 'blk') followed by a 5-digit County FIPS Code (e.g. '53001') and the file extension (e.g. '.zip' or '.shp'). For example, the compressed street data layer for Cook County, Illinois would be named 'str17031.zip'. Below is a list of the prefixes for each of the TIGER data layers.

Data Layer Description	Prefix
Census Blocks	blk
Coastal Shoreline	shr
Coastal Water	cst
Congressional Districts	cd4
County (1995 Boundaries)	cty
County (1990 Boundaries)	c90
Census Transportation Planning Package Areas	ct
Census Block Groups	grp
American Indian Reservations	ind
Key Geographic Locations	kgi
Land and Water Outlines	wat
Landmark Areas	lan
Minor Civil Divisions (1990)	m90
Minor Civil Divisions (1995)	mcd
Places (1990)	p90
Places (1995)	pla
Unified School Districts	sdu
Elementary School Districts	sde
Secondary School Districts	sds
Middle School Districts	sdm
Traffic Analysis Zones	taz
Census Tracts	trt
Urban Areas	uar
Urban and Rural Outlines	urb
Voting Districts (1990)	vtd
Water Bodies	wbd
Lines-Ridge Lines and Fences	lne
Lines-Railroads	lnb
Lines-Utility Lines	lnc
Lines-Landmark	lnd
Lines-Streams	stn
Maintenance and Updating Procedures Overview	lnh
Lines-Streets	str
Lines-Unclassified	lnx
Points-Landmark	ltp
1990 Census Block Demographics	b90
1990 Census Block Group Demographics	g90
1990 Census Tract Demographics	t90
Alternate Street Names	stn

B. User Information

1. Accuracy Assessment

a. Alignment with Other Theme Geospatial Data

Data will align 100% with other tiger data but will not align with data at a scale of better than 1:100,000

b. Content

Tiger/Line Census data

2. Appropriate Uses of the Geospatial Data

a. Display Scale

Original data source 1:100,000

b. Plot Scale

Original data source 1:100,000

c. Area Calculations

Accurate only to source scale

d. Decision Making

None

C. Maintenance and Updating

1. Recommendations and Guidelines

a. Frequency of Updates

Update data when Census releases new Tiger files

b. Location for the Theme Data to be Maintained

US Census Bureau

Data for USDA Service Centers will be maintained at

NCG

Ft. Worth TX

c. Maintenance and Updating Procedure Overview

Update when Census releases new Tiger files.